

Title (en)

Method and device for classifying a traffic sign

Title (de)

Verfahren und Vorrichtung zur Klassifizierung eines Verkehrszeichens

Title (fr)

Procédé et dispositif pour classier un panneau de signalisation routière

Publication

**EP 2363827 A1 20110907 (EN)**

Application

**EP 10002244 A 20100304**

Priority

EP 10002244 A 20100304

Abstract (en)

A method and device are described which are configured to establish whether a traffic sign (21) has at least one graphical feature (22) extending linearly thereon. A portion of image data which represents at least a portion of the traffic sign (21) is identified. Coefficients (32) of a two-dimensional spectral representation of the portion of the image data are calculated. The coefficients (32) of the two-dimensional spectral representation are determined for Fourier space coordinates disposed along a line (33) in Fourier space (31). Based on the determined coefficients (32) it is established whether the traffic sign (21) has the at least one graphical feature (22) extending linearly on the traffic sign (21).

IPC 8 full level

**G06K 9/00** (2006.01)

CPC (source: EP US)

**G06V 20/582** (2022.01 - EP US)

Citation (applicant)

- R. ACH ET AL.: "classification of Traffic Signs in Real-Time on a Multi-Core Processor", INTELLIGENT VEHICLES SYMPOSIUM, 2008, pages 313 - 318, XP031318852
- JOSEF BIGUN: "Vision with Direction - A systematic Introduction to Image Processing and Computer Vision", 2006, SPRINGER-VERLAG

Citation (search report)

- [IA] ACH R ET AL: "Classification of traffic signs in real-time on a multi-core processor", INTELLIGENT VEHICLES SYMPOSIUM, 2008 IEEE, IEEE, PISCATAWAY, NJ, USA, 4 June 2008 (2008-06-04), pages 313 - 318, XP031318852, ISBN: 978-1-4244-2568-6
- [A] MARCIN L EICHNER ET AL: "Integrated speed limit detection and recognition from real-time video", INTELLIGENT VEHICLES SYMPOSIUM, 2008 IEEE, IEEE, PISCATAWAY, NJ, USA, 4 June 2008 (2008-06-04), pages 626 - 631, XP031318930, ISBN: 978-1-4244-2568-6
- [T] JOSEF BIGUN: "Vision with Direction - A systematic Introduction to Image Processing and Computer Vision", 1 January 2006, SPRINGER-VERLAG BERLIN HEIDELBERG, ISBN: 978-3-540-27322-6, article "10.1 Linearly Symmetric Images", pages: 153 - 163, XP002593305
- [T] JAHNE B: "Digital image processing - 5th revised an extended edition", 1 January 2002, SPRINGER-VERLAG BERLIN HEIDELBERG, ISBN: 3-540-67754-2, article "8.6 Depth from Multiple Projections: Tomography", pages: 224 - 231, XP002593306

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Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)

AL BA ME RS

DOCDB simple family (publication)

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DOCDB simple family (application)

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